

# MAKING THE WORLD SAFER



DOGU





DOGU has the highest level of autonomous technology and security-specific AI technology. In a factory, in a hospital, in a park, in a museum, in a parking lot – We produce and provide robots that meet your needs in each place.



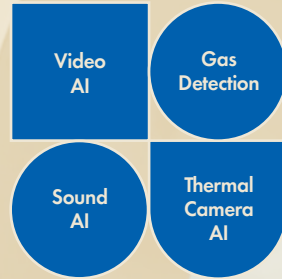
DOGU's robot, made by combining autonomous tech and security AI, captures information that is difficult to recognize with human senses with more than 20 cameras and sensors and autonomously performs the entire process from driving to charging.

# Autonomous Security Robot [ASR]

## SECURITY AI

Active safety event recognition

Immediately recognizing environments of the robot on its own



Fire Detection



Fallen Detection



Intruder Detection



Abnormal Sound Detection



Safety Helmet Detection



Mask Detection



Face Recognition



Temperature & Humidity



Abnormal Temp. Detection



Fever Recognition



Crowdedness Check



Speech Recognition



Route Path Patrol



Gas Detection (CO2, NO2, SO2, VOC, PM2.5, PM10)



Fire Extinguisher Function



First Aid Kit



Safety Escort



License Plate Recognition

## ROBOT PLATFORM

Autonomous tech with a wide range of environmental applications

With autonomous algorithms that can be operated indoors and outdoors, modular HW and SW provide necessary services for each site with various needs.

- Indoor autonomous driving technology
- Outdoor autonomous driving technology
- 3D environment detection and collision detection/avoidance technology
- Robust estimation/tracking technology for high-speed environments
- 3D Localization & Navigation



Patrover™  
Outdoor/Indoor

iroi™  
Indoor

## SOS : ROBOT CONTROL SYSTEM

Remote monitoring, remote control services

In addition to robot security services using autonomous technology, we provide technology design services that take into account collaboration between robots and users

- Scenario editor using low-code/no-code
- Real-time remote monitoring system
- Real-time remote control system
- Two way calling

REGARDING CORE TECHNOLOGY  
INCLUDING ROBOT CONTROL  
13 KOREAN PATENTS GRANTED AND  
2 US PATENTS GRANTED  
9 TRADEMARKS GRANTED  
2 DESIGN PATENTS PENDING

- 2013.12 THREE DIMENSIONAL SOUND SOURCE LOCALIZATION DEVICE USING ROTATIONAL MICROPHONE ARRAY AND SOUND SOURCE LOCALIZATION METHOD USING THE SAME
- 2015.2 PARKING AREA GUIDANCE SYSTEM AND METHOD
- 2015.9 STEERING CONTROL METHOD AND APPARATUS THEREOF
- 2015.10 INPUT/OUTPUT DEVICE RESPONSIVE TO USER AND METHOD FOR CONTROLLING OPERATION OF THE SAME
- 2019.2 METHOD FOR CONTROLLING MOBILE ROBOT AND APPARATUS THEREOF
- 2020.7 METHOD FOR CONTROLLING A SECURITY ROBOT, APPARATUS FOR SUPPORTING THE SAME
- 2021.7 METHOD FOR CONTROLLING A MOBILE ROBOT, APPARATUS FOR SUPPORTING THE SAME, AND DELIVERY SYSTEM USING A MOBILE ROBOT
- 2021.8 METHOD AND APPARATUS FOR CONTROLLING A ROBOT USING HEAD MOUNTED DISPLAY
- 2021.11 METHOD OF CONTROLLING MOBILE ROBOT, APPARATUS FOR SUPPORTING THE METHOD, AND DELIVERY SYSTEM USING MOBILE ROBOT
- 2021.11 METHOD FOR CONTROLLING A MOBILE ROBOT, APPARATUS FOR SUPPORTING THE SAME, AND DELIVERY SYSTEM USING A MOBILE ROBOT
- 2022.2 METHOD AND APPARATUS FOR DETECTING AN OBJECT
- 2022.3 METHOD FOR CONTROLLING MOBILE ROBOT AND APPARATUS THEREOF
- 2022.6 METHOD FOR CONTROLLING A MOBILE ROBOT, APPARATUS FOR SUPPORTING THE SAME, AND DELIVERY SYSTEM USING A MOBILE ROBOT



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